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CENTRAL INTELLIGENCE AGENCY INFORMA BOX TRUMED
FOREIGN DOL MENTS OF RADIO BROADCASTS

REPOR CD NO

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COUNTRY

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DATE OF INFORMATION 1946, 1947

SUBJECT

Scientific Research

DATE DIST. / December 1948

HOW

PUBLISHED

Periodical

1946, 1947

FOR OFFICIAL USE ONLY

NO. OF PAGES

WHERE **PUBLISHED**

UBSR

Kun [ill]

SUPPLEMENT TO

LANGUAGE Pussian

PUBLISHED

THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSIS

SOURCE IDENTIFICATION

centary as indicated. (Information requested.)

RECEPTLY PUBLISHED RESEARCH OF THE KALININ INSTITUTE OF MONFMIROUS METALS AND COLD, MOSCOW

"Rational Analysis of Nickel Compounds," G. A. Shakhov and M. M. Voekresenskaya, Kalinin Inst Honferrons Metals, Moscow

"Zavod Iab" Vol 13, 1947, pp 156-60

A method was sought for the separation of HiO, NigSz, and Hisios. In fluely ground mixtures of the three compounds belling 10% H₂So, diesolved all of the Hi₂S₃ and nearly 90% of the HiSiO₂, leaving the (ignited) Hi0 unchanged. On heating with a concentrated aqueous solution of HH₂S and HH₂ citrate (5:1 by wt) for 4 hours, about 5% of the Hi₂S₃ and about 50% of the HiSiO₂ went into solution. FH₂-NH₂ 27%, dissolves neither the Hi0 nor the HiSiO₂ and dissolves part of the Hi₂S₃ only vary slowly. Satisfactory separation was obtained by means of AccH+H₂O₂); (80 ml glacial AccH+H₃O ml H₂O+40 ml FH₂O₂); on heating at 60°. 6 hours, only Hi₂S₃ is 7 H₂O₂); on heating at 60°, 6 hours, only Hi₂S₂ is dissolved; in the residue, KiSiO₃ is dissolved with 10% H₂SO₃; the residual HiO is then dissolved in aqua regia.

"Measurement of Viscosity by the Ball and Counterpoise Method," F K. Marshak, Kalinia Inst of Monferrous Matals and Gold, Moscow

"Zaved Dab" Tel 12, 1946, pp 324-7

The viscounter consists of an ordinary laboratory balance with a sensitivity of 0.01-0.02 g. The accuracy is increased by lengthening the printer 2.5 times and lowering the scale correspondingly. A steel ball with a screwed-in steel core is suspended from the been by means of a chain, which insures a vertical position of the ball. The diameter of the cylinder

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with the cample solution is 58 mm and that of the bell 15.97 mm. The results of measurement do not depend on the weight of the bell, or on the height, provided the velocity does not exceed the limiting values for the given instrument. The Stokes-Ladenburg-Healein equation can be applied only when a large correction coefficient (4.75) is used. The leviations of results were ±5.75 when the simplified equation Ep/v (2 is the wt in g, v the velocity in on/esc, and I the cometant) was used. Reproducible results were obtained if the n was no less than 6-7 poises.

. R W D .